

Geographic/
Land
Information
Development and
Coordination
Clearinghouse
And
Network

STATES
UPDATE

Lisa Warnecke
July, 1989

Hello! It has been quite some time since I have communicated with many state representatives, and I thought you would find some of the following general information of use in your state. Thank you to many of you for sending in information, keeping in communication about your state, and for your support. The enclosed summary of URISA 89: States Activities is provided as a guide to help URISA conference attendees know about the many activities planned for Boston. The conference promises to be an excellent time to learn about activities in states and in general!

GLID: An Explanation

Tired of our alphabet soup: GIS/LIS/AM/FM/CAD (Design, Drafting or Dispatch)? Geographic/Land Information Development (GLID) is proposed. "Development" suggests we are working for a common goal, similar to economic development and sustainable development. Our goal is improved Geographic/Land Information Management and/or Multipurpose Geographic/Land Information Systems. What do you think?

GLIDCCAN Status and Support Update

Indications of support have been reported from various entities for the GLIDCCAN. Representatives of various states have expressed support verbally and in writing. For example, Ohio Governor Richard Celeste stated, "(w)e will be well served by projects that supply us with experience available in other state and local governments . . . (p)lease count Ohio among the supporters of projects related to the orderly implementation of GIS including the concept of a clearinghouse." Also, John Thomas, Executive Director of the National Association of Counties (NACo), stated in a recent letter, "A Geographic/Land Information Development and Coordination Clearinghouse and Network could be a major contributor to the sharing of information."

Assistance has been offered in response to the request for help given to the geographic/land information related associations at the GIS/LIS meeting in San Antonio. The Institute for Land Information (ILI) has committed \$1000 to help defray costs. According to the American Society for Photogrammetry and Remote Sensing President Roger Hoffer, ASPRS has committed the same amount. According to Automated Mapping/Facilities Management International President John Bossler, AM/FM has committed up to \$10,000 to the GLIDCCAN. The Association of American Geographers (AAG), according to its Executive Director Robert Aangeenbrug, will also be contributing to the effort, and URISA has already provided support by printing, duplicating and mailing this and the last edition of the GLIDCCAN "States Update." Many thanks are offered for this support!

POLICY MATTERS

Public Law 100-409: Mandating a Land Information Study

Last year Congress directed the Secretary of Interior to "conduct an assessment of the need for and cost and benefits associated with improvements in the existing methods of land surveying and mapping and of collecting, storing retrieving, disseminating and using information about Federal and other lands." Required topics include a discussion and evaluation of roles of government and the private sector in land information systems, ways to "improve the coordination of federal land information activities, (and) . . . model standards developed by the Secretary for compatible multipurpose land information systems for use by Federal, State and local governmental agencies, the public, and private sector."

The Secretary appointed the Bureau of Land Management to lead the study with the participation of the Geological Survey, Department

of Commerce, Department of Agriculture, National Science Foundation, private sector, and state and local governments, which were represented by the National Governors' Association (NGA) and the National Association of Counties (NACo). As part of this study, NGA sent a short questionnaire to representatives of 20 states with questions to determine awareness levels of National Research Council reports related to development of a multipurpose cadastre; attitudes about state and federal roles, coordination, model standards, state/local relations; and some description of existing coordination activities. A similar survey was also sent to 800 counties by NACo.

The legislation required that the study be delivered to Congress with any recommendations by late August. Copies of the draft report are available from Pat Korp at BLM (202/343-6825). Comments are due by August 7. We can discuss the study and any potential recommendations at the state representatives meeting on August 6 at the URISA conference.

Office of Pipeline Safety: Possible Map Accuracy Standards

The American Congress on Surveying and Mapping (ACSM) is urging OPS to promulgate regulations requiring national map accuracy standards and a certification requirement for maps prepared according to the Pipeline Safety Reauthorization Act of 1988. Support is needed to encourage OPS's adoption of such rules based on the legislation. For further information, contact Nancy Parke at ACSM, 703/241-2446.

CURRENT ACTIVITIES

National Center for Geographic Information and Analysis (NCGIA)

On August 19, 1988, The National Science Foundation awarded a five-year grant of approximately \$5.5 million to the University of California at Santa Barbara, the University of Maine at Orono, and the State University of New York at Buffalo to establish NCGIA. NSF's call for proposals identified five areas needing investigation:

- (1) Spatial analysis and spatial statistics;
- (2) Spatial relationships and database structures;
- (3) Artificial intelligence and expert systems;
- (4) Visualization;
- (5) Social, economic and institutional issues.

Since its official start in November, 1988, NCGIA has begun work on both educational and research activities. A one-year model curriculum for GIS is under development. It will be tested in

over 50 cooperating academic institutions throughout the country and world. NCGIA proposed and prioritized 12 research initiatives and has begun work on the first five, which include:

- (1) Spatial accuracy;
- (2) Languages of Spatial Relations;
- (3) Multiple Representations;
- (4) Use and Value of Geographic Information;
- (5) Architecture of Very Large Databases.

For each of these five initiatives, a three to four day meeting of specialists from around the country was called together to define precise research objectives. Initiative 4 has been described as a precursor to Initiative 9 titled "Institutions Sharing Spatial Information" which, according to Co-Director David Simonett, will be addressed in another year or two. Initiative 4's meeting was held in May with participants from a variety of disciplines and perspectives, including URISA President David Moyer and myself. A draft report of the meeting is under preparation. For further information about NCGIA and to be placed on their mailing list, contact either Co-Director, David Simonett or Michael Goodchild, at NCGIA, University of California, Santa Barbara, CA 93106, 805/961-8224.

Transportation Research Board: GIS Study to be Conducted

A RFP was issued by TRB's National Cooperative Highway Research Program to conduct a study on the "Adaption of GIS for Transportation". The objectives of the project are to identify and evaluate the "state of practice and planned activities in GIS-Transportation (GIS-T), identify transportation problems requiring new capabilities or extensions to current GIS concepts and technologies, design a GIS-T based on current and anticipated transportation agencies' needs, and assess the impact of implementing the designed GIS-T on the transportation industry." Proposals were due in early June and an award is expected in the fall with the 18 month study to begin in early 1990.

RESOURCES AND PUBLICATIONS

Publications and Newsletters of the Federal Interagency Coordinating Committee on Digital Cartography (FICCDC)

FICCDC publishes some informative reports and a regular newsletter which are available without cost upon request. Recent reports include "A Summary of GIS Activities In The Federal Government," "A Process For Evaluating Geographic Information Systems," and "The Sixth

Annual Report To OMB" describing the Committee's activities in 1988. The nine newsletters published to date provides updates on projects and activities in many Federal agencies. To be placed on the mailing list and to obtain copies of publications and past newsletters, contact Bruce McKenzie, USGS-National Mapping Division, 590 National Center, Reston, VA 22092.

Bureau of Land Management: Land Information Management Study Report

This study was commissioned by the BLM to understand conditions within and with the agency and to develop a future course of action regarding land information management. The study was completed in May by the BSC Group with participation from a variety of professionals in a review team, including Don Holloway (North Carolina) and myself informally representing states. The study concluded that there is "growing recognition that information about the land must serve as the foundation upon which land related decisions are made, implemented and enforced . . . a partnership of federal, state and local governments, the private sector and academia is needed to make this paradigm of Land Information Management a reality." In addition to a call for development and continued modification of standards and increased communication, the study concluded that "clearinghouses and other suitable mechanisms for providing access to information must be established and maintained." For further information and a copy of the final report, contact Duane Sonnenburg at BLM (202/653-6147).

Multipurpose Land Information Systems: The Guidebook (Forthcoming)

The Federal Geodetic Control Committee (FGCC) is in the process of developing this guidebook for local governments, as well as state and other governments and private companies who interact with local officials. The Guidebook provides policy and technical guidance for the development of multipurpose systems. The first section is currently under review by the FGCC. A final version of this section will be available after August 31 from Gilbert Mitchell, National Geodetic Survey, N/CG1X10, Room 622, Rockwall Building, Rockville, MD 20852, 301/443-8143.

Transportation GIS Symposium: Summary Report, Proceedings

A symposium on GIS for Transportation was held in Orlando, Florida in February, 1989. The meeting was sponsored by the American Association of State Highway and Transportation Officials (AASHTO), the US Department of

Transportation: Federal Highway Administration (FHA) and the Highway Engineering Exchange Program (HEEP). It was held to bring together officials from state and provincial transportation agencies to share experiences, provide technical materials, determine the perceived needs and expectations of agency leaders and develop an action plan to provide direction for governments and the sponsoring organizations.

Keynote speaker was Lowell Jackson of Greenhorn and O'Mara, Inc., and former Deputy Director of FHA, Secretary of Transportation in Wisconsin and Director of Highways in Colorado. The meeting included a variety of technical and transportation related sessions. It also included a session titled "Interagency Coordination" with speakers including Norm Baker (Iowa), David Gorg (Minnesota), Karen Siderelis (North Carolina), Charlie Groves (Ohio) and Ron Schaefer (Wisconsin).

An excellent summary report of the meeting was prepared by Mike Bacon and Dave Moyer (Wisconsin Department of Transportation.) A copy can be obtained from Dave at 610 Walnut Street, Room 1050, Madison, WI 53705. Proceedings of the meeting are available from AASHTO by writing Jack Stanton, Project Director, 444 North Capitol Street, N.W., Suite 225, Washington, DC 20001.

Resource Guide to State Environmental Management

This publication was published by the Council of State Governments (CSG) in late 1988. It has an excellent compilation of state organizational charts, expenditures, and personnel related to protection of the environment and implementation of natural resource programs. Hard copies of the Guide are available at \$28.00 for state officials from CSG, Iron Works Pike, PO Box 11910, Lexington, KY 40578-9989, 606/252-2291.

National Ocean Survey: Assessment of Problems and Deficiencies Limiting the Ability of the National Geodetic Survey to Provide Assistance to State and Local Governments (Forthcoming)

NOS commissioned a study by the South Carolina Water Resources Commission to conduct a study of their services to various users including state and local governments. NOS and NGS clients were interviewed by the Fontaine Company under contract to the Commission who also prepared a report for them. Copies will be available after August 31 from Gilbert Mitchell, National Geodetic Survey, N/CG1X10, Room 622, Rockwall Building, Rockville, MD 20852, 301/443-8143.

State Legislative Clearinghouse Program

The American Congress on Surveying and Mapping (ACSM), specifically the National Society of Professional Surveyors (NSPS), support a State Legislative Clearinghouse through StateNet, a legislative bill tracking service. The service tracks activities in all states regarding surveying and mapping legislation that is pending and from the previous year. The service prints an index of bills in a directory. A contact has been designated for each state who has a copy of the directory with updates. For further information, contact Nancy Parke at ACSM, 703/241-2446.

UPCOMING MEETINGS RELATED TO STATES

URISA 89: August 6 to 10, Boston, Massachusetts
See "URISA 89: States Activities"

GIS/LIS 89: November 26 to 30, Orlando, Florida
Sessions and activities to be announced

Great Lakes Basin GIS Workshop 1989

The US Environmental Protection Agency and the US Geological Survey, Water Resources Division is sponsoring this workshop in early October, 1989 to identify regional activities and provide "a forum to discuss issues and options for developing cooperative GIS activities in the Great Lakes Basin." For further information, contact Pranas E. Pranckevicius, US EPA, Great Lakes National Program Office, 230 South Dearborn Street, Chicago, IL 60604.

FUTURE GLIDCCAN PUBLICATIONS

Remarks from Panel of State Representatives at ASPRS/ACSM 89 Conference

The April meeting in Baltimore had an excellent panel on state and provincial GLID and coordination activities with the following speakers: John Bossler (Ohio), John McLaughlin (New Brunswick), Ben Niemann (Wisconsin), Charlie Parson (Minnesota) and myself. The panel provided an overview of activities in the United States and Canada, with focus on four governments. It also provided useful insight on the role of states and their governments in GLID, with a special focus on the role of academia in these efforts. Thanks to the speakers and Don Holloway (North Carolina), we have copies of overheads and a transcript of remarks. These materials can be compiled in a short report.

Update on State Directives

Some states have or are currently adopting legislation and/or executive orders of major significance to GLID and coordination activities in their states. I have copies of some of these directives and related implementation plans. If you have any significant legislation and/or executive orders that have recently been adopted in your state, please send in a copy and any description of your plans, and they can be compiled as a resource to help others.

VOLUNTEERS NEEDED

Taping, Transcribing and Editing:

GIS/LIS 88: With many thanks to Ioannis Pissimissis, Los Angeles Data Processing Department, we have cassette tapes of the talks given by representatives of 12 states at the roll call sessions held at the meeting. Transcription and editing is needed to summarize these presentations into a report of state activities.

URISA 89: Conference organizers do not plan to tape sessions. If you have a tape recorder that could be used, can donate some tapes, and/or can help with transcription and editing of the presentation remarks, please contact Paul Davis (601/982-6354) or Lisa Warnecke (315/478-6024) before August 1.

This "States Update" and "URISA 89: States Activities" was prepared by Lisa Warnecke and does not officially represent any group or entity. Many people contributed information and assistance to complete it, and thanks are offered to all. Thanks are also offered to Paul Davis, Joe Ferreira, Libby Clapp and Tom Palmerlee for their help in preparing the "URISA 89; States Activities". I would also like to thank Karen Hiimae, David Boeshaar and Terry Jares at Syracuse University for their assistance in developing both publications.

Material in the GLIDCCAN "States Update" may be reprinted without permission, however credit to the source would be appreciated, as would a copy of any publication which uses information presented here. Please send this or any other information that you wish to share with others to me at the following address. Ideas, suggestions and models for the GLIDCCAN are also appreciated and will be very helpful.

Lisa Warnecke
256 Greenwood Place
Syracuse, New York 13210

URISA 89: STATES ACTIVITIES

August 6 to 10, 1989, Boston, Massachusetts

Prepared by: Lisa Warnecke, July, 1989

URISA '89 Activities Regarding States and Provinces

Below are our scheduled sessions and activities related to Geographic/Land Information Development (GLID) and Coordination in state governments. All representatives of states and provinces involved in such activities are welcome to attend, participate, and share ideas and experiences. The formal sessions are marked as "States Track (ST)" in the official program. The following information was developed with the assistance of Paul Davis, Joe Ferreira, Libby Clapp and Tom Palmerlee. Many thanks is offered to them, the URISA Conference Committee and all speakers for help in developing such an excellent program for and about state governments. Additional thanks to URISA for the duplication and mailing of this conference schedule.

SUNDAY

1:00 to 4:00 Preconference Meeting of State and Province Representatives (Hyannis Room), and Informal Dinner after Reception

This meeting offers an opportunity in a round table fashion to discuss common interests and various approaches in statewide activities. Topics for discussion could include any topics in the "GLIDCCAN States Update", and we will be prepared to specifically discuss an update on the GLIDCCAN, GIS/LIS '89 sessions and activities as well as the draft report of the Land Information Systems Study mandated by Public Law 100-409 for which comments are due by August 7. The following topics could also be addressed:

1. Themes: What's Working and How, Impacts on Long Term Needs

Some trends we are seeing is attachment to specific state themes such as economic development, growth management, functionally specific purposes such as natural resources,

transportation and others. What theme, if any, is used in your state? When such themes are used, what are the impacts on developing a long term, multipurpose information foundation?

2. Who is involved with Statewide Geographic/Land Information Development and Coordination?

It would be informative to hear about what groups and entities are involved in your state. Many states have groups with state, federal, local government, academic and/or private sector members who are determining the course of action in their state. Some groups include GI Councils, SMACs, Geographic Names Boards, GIS User groups, and others. What types of group(s) does your state have, what is its membership, who is leading it, and what are its authorities, roles and responsibilities? How would you describe relations between your group and other statewide groups and interests, including central information technology offices, and other agencies, such as natural resources and transportation?

3. Internal Organizational Frameworks

How is your office organized, financed, staffed and what does it do? What services do you provide, to whom, and how do you recover costs for these services? What are some of your key internal issues and needs?

4. Developing Statewide Policies, Standards and Clearinghouses

Some states are establishing reference bases of a specific level of resolution; geodetic networks; data classifications, dictionaries and directories; policies; procedures; data and technology standards, and clearinghouses of activities in their state government and other governments. What needs and activities are occurring in your state? What do you anticipate will occur in the future?

In addition to these topics, I invited representatives from One Call Systems (Stephen Rieben - Connecticut) and 911 Emergency Reporting Systems (David Yandel - Oregon) to join us and describe these efforts in the nation's states. Both of these initiatives are growing in the states and offer opportunities for collaboration and possible models and resources for developing financial support.

5. One Call Systems

One Call Systems exist in most states, and participation is mandated in some. Frequently known as "call before you dig" programs, they rely on location based information for all utilities, but do not seem to be using the automated tools we are familiar with. They are interesting because some are non profits and others are private.

6. 911 Emergency Reporting Systems

Statewide systems are developing in a number of states, including about 15 with statewide systems and related programs funded by specific appropriations. Two states are developing statewide E911 (Delaware and Rhode Island). Oregon is developing an approach to develop a reference base for 911 in coordination with this activity.

Other topics for discussion at the meeting will include an update on ongoing and future GLIDCCAN activities, and some logistical arrangements for the remainder of the conference, including the arrangements for the Tuesday roll call and Thursday breakfast meeting.

Interested persons could get together for dinner this evening after the reception as it is one of the few evenings without a planned activity.

MONDAY

10:30 - 12:00 Super Session:
Geographic and Land Information
Development (GLID) and Coordination Efforts
in the States: Trends, Roles and Opportunities

Session Chair:
Lisa Warnecke

Speakers:
Nancy Tosta (California)
John Hall (Florida)
Jim Parker (Kansas)
Charlie Parson (Minnesota)
Dave Healy (Vermont)
Al Miller (Wisconsin)

This session will include a brief update on activities, trends, roles, responsibilities, and opportunities to improve the coordination and development of geographic and land information in the states. This session is designed for all conference attendees to provide examples and describe the importance of states' impact on others, including local governments, federal agencies, private companies, associations, and academia. Topics will include themes, interagency and intergovernmental coordination and groups, legal directives and their impact on other entities, state standards, reference base and database development and others. The objective of the session is to encourage and educate attendees about the value of participating in their state's coordination activities for their own benefit as well as the state as a whole.

4:00 - 5:30 Regular Session:
State Geographic and Land Information
Development (GLID) Programs to Assist Local
Governments

Session Chair:
Lisa Warnecke

Speakers:
Phil Thiel (Georgia)
Michael Scieszka (Michigan)
David Scott (New Hampshire)
Robert Kitchen (New York)
Donald Holloway (North Carolina)

This session will describe existing examples and recommendations for state programs to assist local governments in their efforts to build geographic and land information systems.

Speakers will describe how programs have helped both state and local governments alike. Some benefits to local governments have included guidance and technical assistance, reference bases and data, standards, technology, and procurement assistance. Benefits to states include improved local information for state needs and commonality among local governments to facilitate aggregation. Improved reporting, sharing mechanisms, joint projects, state clearinghouses and lessons learned will also be discussed. The objective of this session is to provide ideas for state and local governments for programs that can be designed and advocated for adoption in other states.

TUESDAY

Individual State Activities Update

These sessions offer an opportunity for local governments, businesses, academicians and others in each state to learn about coordination and development activities in their state, as well as for states to share experiences and help define and address some common issues and needs.

10:30 - 12:00 Regular Session: New England GIS Activities in State and Local Government

Session Chair:
Joseph Ferreira, Jr.

Speakers:
Walter A. Anderson (Maine)
Sandy Prisloe (Connecticut)
David Scott (New Hampshire)
John Stachelhaus (Rhode Island)
Richard Taupier (Massachusetts)
Dave Healy (Vermont)

2:00 - 7:00 Special Session: Roll Call and Update on State and Provincial Geographic and Land Information Development (GLID) and Coordination Efforts

Session Chairs:
Paul Davis and Lisa Warnecke

Speakers:
Allen Cox (Montana)
John Peterson (New Mexico)

Gary Irish (Arizona)
Charles Palmer (Texas)
Ken Dueker/Dave Yandel (Oregon)
Bob Guida (Wisconsin)
Mike Scieszka (Michigan)
Jim Parker (Kansas)
Kathy McCarter (Indiana)
Pat Cummins (New Jersey)
James Wheeler/Bob Surridge (Pennsylvania)
Tom Tribble/Don Holloway (North Carolina)
William Shinar (South Carolina)
John Hall (Florida)
Phillip Thiel (Georgia)
Roger Durham (Virginia)
Paul Davis (Mississippi)

The roll call will be similar to the states session held for an afternoon at GIS/LIS '88, with each state having about 10 minutes to summarize their activities. Topics can include how your state is addressing the institutional and/or technical aspects of GLID. Discussion about the suggested topics for Sunday's meeting would be of interest. Representatives from states and provinces other than those listed above are also encouraged to speak and participate. Advance notice to Paul Davis (601/982-6354) would help with scheduling talks. The schedule will be finalized at the Sunday meeting. All speakers are encouraged to bring copies of a short summary of remarks for others. Handouts and/or display copies of brochures, studies, inventories or other relevant materials would also be welcome.

WEDNESDAY

8:30 - 10:00 Regular Session: Sharing Data Among State and Local Governments: Problems of Scale, Resolution and Data Integrity

Session Chair:
Jonathan Corson-Rikert

Speakers:
Gary Smith (University of Vermont)
Michael Turner (State of Massachusetts)
Peter August (University of Rhode Island)
Fay Rubin (University of New Hampshire)

This session will include examples of regional or smaller scale data that is used in local GIS efforts. The discussion will focus on how to make data integration more possible, including the practicalities of originating more digital data at the local level and the problems of

maintaining integrity as local and state level data are updated.

2:00 - 3:30 Part of Regular Session on GIS Decision Support:
"A GIS Based Decision Support System for Economic Development"

Speakers:
David Cowen and William Shinar (South Carolina)

4:00 - 5:30 Regular Session:
Use of Digital and Conventional Methods in State Reapportionment Efforts

Session Chair:
Paul Davis (Mississippi)

Speakers:
Ian Koeppel (New York)
Ronald Emihovich (Florida)
Dave Healy (Vermont)

This session is to provide attendees with examples of how some states are handling their reapportionment requirements with regard to both digital and conventional information and methods. The session will also discuss the unique mandates that states are required to follow when conducting redistricting, and the impact of these mandates. In addition, the speakers will discuss how their states are addressing reapportionment requirements whether or not they participated in the Census Bureau's Phase I program or not. Use of geographic information systems will also be discussed. The objective of the session is to educate attendees with examples that could be adopted in other states, and how existing GIS offices in states might provide assistance to offices in their state who have responsibility for reapportionment.

4:00 to 5:30 Part of Regular Session on Integration and Databases:
"Issues in the Architecture of a Statewide GIS"

Speaker:
Nancy Tosta (California)

THURSDAY

State Representatives Breakfast:
7:00 to 8:30 AM

This URISA sponsored event will continue discussions from the Sunday meeting and other sessions to provide further direction and ideas for future sessions and activities. All state representatives are invited to attend, but should RSVP by August 1 to Paul Davis (601/982-6354) to reserve your place.

Regular Session. 8.30 to 10:00
Case Studies in States: I

Speakers:

Jim McLaughlin:
Overview of New Hampshire Statewide GIS Efforts

David Scott:
Evolution of a GIS for the State of New Hampshire

Gordan R. Morgan and Jesse M. Day:
Florida Department of Transportation GIS Design Guidelines

Regular Session: 10:30 to 12:00
Case Studies in States: II

Speakers:

Richard Eden and Tony Batten:
Queensland Experiences Toward GIS

Robert J. Lima and Patricia A. Brady:
Designing a Statewide Real Property Inventory for Integration into GIS (Massachusetts)